



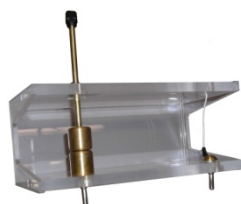
# ASTM D149 TESTER

## AC Dielectric Breakdown Tester

■ **The 700-D149** Series of AC Dielectric Breakdown Testers represent a new level of sophistication, flexibility and accuracy in breakdown voltage testing. Each unit is equipped with a PLC-based control system that is internally programmed to perform the D149 short-time test, step-by-step test and slow rate-of-rise test. The unit can also be easily programmed to perform variations on these test sequences. The voltmeter circuit continually samples the waveform to determine the breakdown voltage with the highest accuracy. The operator can control all test parameters as required. At the conclusion of tests, all relevant parameters (minimum, maximum, mean, and standard deviation) for a series of tests on a sample are automatically calculated. Units are available from 30kV to 100kVac for a wide variety of applications.



750-2-D149 unit (pictured above)  
Example oil bath & test cell (pictured below)



### FEATURES

- ✓ PLC-based control and measurement system
- ✓ Presets
- ✓ USB for data download
- ✓ Internally programmed to perform all D149 type tests
- ✓ Adjustable test parameter (voltage, time, over current, etc.)
- ✓ Built in safety cage with interlock door
- ✓ Adjustable current overload (10% ... 110%)
- ✓ Optional test fixtures and oil baths
- ✓ User Friendly Touch Screen

### BENEFITS

**Complete** test solution

**All metering** performed by fast sensing circuitry

**Tests performed** with little or no operator intervention

**Software** calculates all test parameters and print out test reports

### APPLICATIONS

- ➔ Films, Papers, Tapes, and Fabrics
- ➔ Polymeric molding and embedding compounds
- ➔ Ceramics, Porcelain, and Mica
- ➔ Sleeving, Tubes, Sheets, and Rods
- ➔ Varnishes, Coatings, and Insulating fluids.
- ➔ Filling Compounds
- ➔ Adhesives
- ➔ Rubber and Rubber Products

## SYSTEM CONTROLS



## TECHNICAL SPECIFICATIONS

### Voltage Measurement Accuracy

730-2-D149-^-*	± 5% of measured value, 0.6-30 kV
750-2-D149-^-*	± 5% of measured value, 1-50 kV
775-5-D149-^-B	± 5% of measured value, 1.5-75 kV
7100-5-D149-^-B	± 5% of measured value, 2-100 kV

### NET Dimensions

730-2-D149-^-*	23 x 72 x 24 in	58 x 183 x 61 cm
750-2-D149-^-*	23 x 72 x 24 in	58 x 183 x 61 cm
775-5-D149-^-B	72 x 72 x 36 in	183 x 183 x 91 cm
7100-5-D149-^-B	72 x 72 x 36 in	183 x 183 x 91 cm

^ Designate input frequency '5' for 50Hz input tor '6' for 60Hz input

\* Designate input voltage. 'A' for 120 V input or 'B' for 230 V input

### Applicable Standards

ANSI D149 12.2.1 & 12.2.2

## ORDERING INFORMATION

System output voltage: **730-2-D149-^-\***

- 6-30kV (Tap 1)

- 0.6-6kV (Tap 2)

System Output Current:

- 67mA

System output voltage: **750-2-D149-^-\***

- 10-50kV (Tap 1)

- 1-10kV (Tap 2)

System Output Current:

- 40mA

System output voltage: **775-5-D149-^-B**

- 7.5-75kV (Tap 1)

- 1.5-7.5kV (Tap 2)

System Output Current:

- 67mA

System output voltage: **7100-5-D149-^-B**

- 10-100kV (Tap 1)

- 2-10kV (Tap 2)

System Output Current:

- 50mA

^ Designate input frequency '5' for 50Hz input tor '6' for 60Hz input

\* Designate input voltage. 'A' for 120 V input or 'B' for 230 V input

## ADDITIONAL ACCESSORIES

**TF-2-#** 2" diameter electrode

**TF-1-#** 1" diameter electrode

**TF-.50-#** ½" diameter electrode

**TF-.25-#** ¼" diameter electrode

**TF-4.25-#** -Flat plates .25" thick 4.25" wide  
-Edges square and ends rounded to .125"

**TF-3-#** Opposing Cylinders:

-Lower cylinder 3" diameter, .6" thick  
-upper cylinder 1" diameter, 1" thick, with edges rounded to .12" radius

**OB-#** Lucite Oil bath

**TL-D149-#** HV & Grnd. test leads to connect from terminations to alternative fixture

**# to be replaced with "50" or "75" depending on max test voltage. For a 30kV or 50kV D149 test system a TF or OB "50" test cell must be used.**

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